#### **MEMORANDUM**



#### Missouri Department of Transportation Construction and Materials Central Laboratory

TO:

Andrew Ellsworth-SW/rw

COPY:

FROM:

Frank Reichart

**Environmental Chemist** 

DATE:

September 22, 2011

**SUBJECT:** 

Materials

Asbestos Inspection & Heavy Metal Paint Survey

Route 32 Job No. N/A

Parcel E8-0699 Halfway MT Lot

Polk County

We are providing you with the results of the requested inspection on the above referenced property. The inspection report contains an asbestos and a heavy metals survey, unless otherwise requested. The asbestos inspection included sample collection of suspect asbestos-containing material and National Voluntary Laboratory Accreditation Program (NVLAP) accredited testing to confirm the presence of asbestos. This asbestos and heavy metal paint report includes four different report forms. Form T746 lists all of the samples taken during the asbestos inspection. Form T747 shows only those samples that tested positive for Category I nonfriable asbestos-containing materials that may remain in the structure during demolition, if kept adequately wet to avoid visible air emissions. Form T748 shows only those samples that tested positive for asbestos and require removal prior to demolition. Form C760 lists all paint samples taken during the heavy metal paint survey and their metal content.

In accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP), as well as city and county asbestos abatement regulations - Registration, Notification, and Performance Requirements, regulated asbestos-containing material (RACM) namely, Friable and Category II nonfriable, have a high probability of becoming friable under normal demolition forces. Practices and procedures for removal prior to demolition, disposal, and clearances should be in accordance with referenced regulations. Missouri Department of Transportation policy is to perform asbestos abatements in accordance with NESHAP.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced property. We are providing you with the results of this survey. This survey includes locating painted concrete, block and/or brick surfaces, sampling/testing the painted surface(s) to determine if hazardous heavy metals are present. Non-hazardous painted concrete, blocks, or bricks may be used as clean fill materials, if properly

TO: Ellsworth-SW/rw Page 2

September 22, 2011

handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling behind walls, above ceilings, beneath floors, etc., it is possible that potentially hidden asbestos-containing materials may exist within the structure. To our knowledge, we have located all suspect asbestos-containing and all painted concrete, block and brick surfaces. If suspect asbestos-containing materials or if painted concrete, block and/or brick surfaces are observed in addition to those reflected in this inspection report, then please advise us immediately so that we may schedule a follow-up inspection.

Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/dr

J:\barred\asbestos\District - SW (Southwest)\Misc\fr1109221.docx Attachments

**Asbestos Survey Report** All Suspect ACM

PARCEL NO.: MODOT JOB NO.: ROUTE: DATE OF SURVEY: COUNTY: DISTRICT: SW Polk N/A E8-0699 (Halfway MT Lot) September 1, 2011

SITE ADDRESS:

2074 Highway 32, Halfway 65663

**CERTIFICATION #:** SURVEYED BY:

Frank Reichart and Diane Roegge

TYPE(S) OF STRUCTURE(S): 5-Bay Block Maintenance Shed on Concrete, Metal Spreader 7112010411MOIR11239, F.R. 7112010411MOIR7165, D.R.

Equipment Racks, Metal-Clad Wood-Frame Cold Storage Shed,

Concrete Saddles, 3-Sided Wooden Trash Bin, Wooden Post/Sign Wooden Spreader/Tank Rack, Two (2) Metal Asphalt Tanks with

Bin, Small Metal-Clad Wooden Flammable Shed on Concrete, Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mix

(Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay

Wooden Salt Shed, and Concrete Fuel Tank Basin

11MD1R 683 Aspha	<u> </u>	_	ļ	Cold	No	Meta	to be .	NON.	11MD1R 679 Insulation	11MD1R 678 Insulation		11MD1R 676 Surfac	11MD1R 675 Surfac	11MD1R 674 Adhes	11MD1R 673 Floor	11MD1R 672 Caulk	11MD1R 671 Aspha	11MD1R 670 Aspha	11MD1R 669 Aspha	Main	Sample ID
Asphalt Felt Material	Asphalt Roofing Shingles (Dark Gray)	Asphalt Roofing Shingles (White)	Asphalt Roofing Shingles	Cold Storage Shed	No samples taken. No suspect ACM located.	Metal Spreader Equipment Racks	to be ACM (P-ACM) with typical asbestos type and percentage reported.	NOTE: Asphalt Joint Compound sample was not obtained due to safety	tion	tion	Sheetrock, Joint/Tape/Mud	Surfacing Material	Surfacing Material	Adhesive, 12"x 12" Gray Floor Tile	Floor Tile (12"x 12" Gray)	Caulking on Block	Asphalt Joint Compound®	Asphalt Felt Material	Asphalt Roofing Shingles	Maintenance Shed	Type of Materials
Loose, Roll	Loose, Stacks	Loose, Stacks	Roof				_	not obtained due to safety considerations. Material is presumed	Attic and Roofline	Walls	Ceilings and Walls, Bathroom/Breakroom/Office	Walls, Bathroom/Breakroom/Office	Ceilings, Bathroom/Breakroom/Office	Bathroom/Breakroom/Office, Over Concrete	Bathroom/Breakroom/Office, Over Concrete	10-Vertical Seams, West Back	Roof, Around Vents	Roof, 2 <sup>nd</sup> Layer	Roof, 1 <sup>st</sup> Layer		Location of Material
N-ACM	N-ACM	N-ACM	N-ACM	1					N-ACM	N-ACM	N-ACM	N-ACM	N-ACM	N-ACM	N-ACM	N-ACM	INF	N-ACM	N-ACM		Friability Category
																	10 Sq. Ft.				Field Measure

**Asbestos Survey Report** All Suspect ACM

ROUTE:	32
MODOT JOB NO.:	N/A
DISTRICT:	WS
COUNTY:	Polk
DATE OF SURVEY:	September 1, 2011
PARCEL NO.:	E8-0699 (Halfway MT Lot)
SITE ADDRESS:	2074 Highway 32, Halfway 65663

SURVEYED BY: **CERTIFICATION #:** 

Frank Reichart and Diane Roegge

7112010411MOIR11239, F.R. 7112010411MOIR7165, D.R.

TYPE(S) OF STRUCTURE(S): 5-Bay Block Maintenance Shed on Concrete, Metal Spreader Equipment Racks, Metal-Clad Wood-Frame Cold Storage Shed,

Wooden Spreader/Tank Rack, Two (2) Metal Asphalt Tanks with

Concrete Saddles, 3-Sided Wooden Trash Bin, Wooden Post/Sign

Bin, Small Metal-Clad Wooden Flammable Shed on Concrete, Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mix

(Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay

Wooden Salt Shed, and Concrete Fuel Tank Basin

Sample ID  11MD1R 684	Type of Materials  Wooden Spreader/Tank Rack  No samples taken. No suspect ACM located.  Asphalt Tanks with Concrete Saddles  No samples taken. No suspect ACM located.  Wooden Trash Bin  Caulking on Windows	Location of Material
11MD1R 684	Wooden Trash Bin Caulking on Windows Wooden Post/Sign Rack No samples taken No samples take	7-Loose
	Metal Post/Sign Rack  No samples taken No suspect ACM located	
	Concrete Walled Asphalt Mix Bin	
	No samples taken. No suspect ACM located.	
	Flammable Shed	
11MD1R 685	Asphalt Roofing Shingles	Roof
11MD1R 686	Insulation	Walls and Attic
	(Brine) Concrete Pad	
	No samples taken. No suspect ACM located.	
	Brine Pump Shed	
	No samples taken. No suspect ACM located.	

### MISSOURI DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS Ashestos Survey Report

Asbestos Survey Report
All Suspect ACM

ROUTE: MODOT JOB NO.:	32 N/A
DISTRICT:	SW
COUNTY:	Polk
DATE OF SURVEY:	September 1, 2011
PARCEL NO.:	E8-0699 (Halfway MT Lot)
CITE ADDRESS:	2074 Highway 22 Halfway 65662

SURVEYED BY:
CERTIFICATION #:
TYPE/S) OF STRUCTURE

Frank Reichart and Diane Roegge 7112010411MOIR11239, F.R. 7112010411MOIR7165, D.R. 7112010411MOI

TYPE(S) OF STRUCTURE(S): 5-Bay Block Maintenance Shed on Concrete, Metal Spreader

Equipment Racks, Metal-Clad Wood-Frame Cold Storage She

Equipment Racks, Metal-Clad Wood-Frame Cold Storage Shed, Wooden Spreader/Tank Rack, Two (2) Metal Asphalt Tanks with Concrete Saddles, 3-Sided Wooden Trash Bin, Wooden Post/Sign

Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mix

Bin, Small Metal-Clad Wooden Flammable Shed on Concrete, (Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay

Wooden Salt Shed, and Concrete Fuel Tank Basin

										11MD1R 687		Sample ID
NOTE: Non-destructive means were used to surve be present hidden underneath vinyl/metal siding, r								No samples taken. No suspect ACM located.	Concrete Fuel Tank Basin	Asphalt Roofing Shingles	Salt Shed	Type of Materials
<b>NOTE:</b> Non-destructive means were used to survey and sample this property. Additional suspect material may be present hidden underneath vinyl/metal siding, metal roofing, interior walls and/or ceilings.										Roof, Under Metal Roofing		Location of Material
										N-ACM		Friability Category
				3								Field Measure

Asbestos Survey Report Nonfriable Asbestos-Containing Materials

(Abatement not required if not made friable during demolition.)	
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	(Abatement Hot I	(Apaiement not required it not made triable during demolition.)	
			R
ROUTE:	32	TESTED BY:	Frank Reichart and Diane Roegge
MODOT JOB NO.:	N/A	CERTIFICATION #:	
DISTRICT:	WS	TYPE/S) OF STRICTIBE/S).	5-Ray Block Maintenance Ched on Concert Mat-16 - 1
COUNTY:	Polk		Equipment Packs Metal Clad Wood France Call St. Cl. 1
DATE OF TECTS.	+10+0		Equipment racks, tricuit Ciau wood-Tiame Cold Storage Siled,
PAIR OF LEGIO.	marc		Wooden Spreader/Tank Rack, Two (2) Metal Asphalt Tanks with
PARCEL NO.:	E8-0699 (Halfway MT Lot)		Concrete Saddles, 3-Sided Wooden Trash Bin, Wooden Post/Sign
SITE ADDRESS:	2074 Highway 32, Halfway 65663		Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mi
			Bin, Small Metal-Clad Wooden Flammable Shed on Concrete,
			(Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Ba
			Wooden Salt Shed, and Concrete Fuel Tank Basin

Friability Field Asbestos			; }
Wooden Salt Shed, and Concrete Fuel Tank Basin			
(Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay			
Bin, Small Metal-Clad Wooden Flammable Shed on Concrete,			
Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mix		20/4 Highway 32, Halfway 65663	AUUKESS:
Concrete Saddles, 3-Sided Wooden Trash Bin, Wooden Post/Sign		E8-0699 (Hairway M.I. Lot)	EL NO:
Wooden Spreader/Tank Rack, Two (2) Metal Asphalt Tanks with		roade Train	OF LEGIS:
Equipment Racks, Metal-Clad Wood-Frame Cold Storage Shed,		roix	OF TECTO
	TYPE(S) OF STRUCTURE(S):	Doll-	TV.
	CERTIFICATION #:	CHI	
П	CEDTIEIC ATION 4.	N/A	OT TOR NO

Wooden Spreader/Tank Rack  Asphalt Tanks with Concrete Saddles  Wooden Trash Bin  Wooden Post/Sign Rack  Metal Post/Sign Rack  None Located  None Located  None Located	Sample ID 11MD1R 671	Type of Material  Maintenance Shed  Asphalt Joint Compound Roof, Around Vents  NOTE: Asphalt Joint Compound sample was not obtained due to safety considerations. Material is presumed to be ACM (P-ACM) with typical asbestos type and percentage reported.  Metal Spreader Equipment Racks  None Located  Friability Category INF  State State State  INF	Roof, Around Vents as not obtained due to safety considerations. bestos type and percentage reported.  None Located	Friability Category I NF Material is	Field Measure 10 Sq. Ft.
nk Rack oncrete Saddles		Metal Spreader Equipment Racks	L C F		
nk Rack oncrete Saddles			None Located	INI	
oncrete Saddles		Cold Storage Shed			
oncrete Saddles			None Located	INF	
oncrete Saddles		Wooden Spreader/Tank Rack			
oncrete Saddles			None Located	INF	
ck		<b>Asphalt Tanks with Concrete Saddles</b>			
ck			None Located	INF	
ck		Wooden Trash Bin			
ck			None Located	INF	
		Wooden Post/Sign Rack			
Metal Post/Sign Rack			None Located	INF	ŀ
Q		Metal Post/Sign Rack			
None Located			None Located	INF	

All necessary work to handle this material is the contractor's responsibility.

**Asbestos Survey Report** 

(Abatement not required if not made friable during demolition.) Nonfriable Asbestos-Containing Materials

KOCIE:	32	TESTED BY:	Frank Reichart and Diane Roegge
MODOT JOB NO.:	N/A	CERTIFICATION #:	7112010411MOIR11239 F.R 7112010411
DISTRICT:	SW	TYPE(S) OF STRUCTURE(S):	Om C
COUNTY:	Polk	,	Equipment Racks. Metal-Clad Wood-Frame Cold
DATE OF TESTS:	tdate		Wooden Spreader/Tank Rack Two (2) Metal Asm
PARCEL NO.:	E8-0699 (Halfway MT Lot)		Concrete Saddles. 3-Sided Wooden Trash Rin W.
SITE ADDRESS:	2074 Highway 32, Halfway 65663		Rack, Metal Post/Sign Rack, Concrete Jersey Wal

Wooden Post/Sign alled Asphalt Mix halt Tanks with al Spreader MOIR7165, D.R. Storage Shed,

(Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay Bin, Small Metal-Clad Wooden Flammable Shed on Concrete,

Wooden Salt Shed, and Concrete Fuel Tank Basin

Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
	Concrete Walled Asphalt Mix Bin					7
		None Located	INF			
	Flammable Shed					
		None Located	INF			
	(Brine) Concrete Pad					
		None Located	INF			
	Brine Pump Shed					
		None Located	INF			
	Salt Shed					i.
		None Located	INF			
	Concrete Fuel Tank Basin					
		None Located	INF			
			l			
	<b>NOTE:</b> Non-destructive means were used to survey and sample this property. Additional	survey and sample this property. Additional				
	suspect material may be present hidden underneath vinyl/metal siding, meta	ath vinyl/metal siding, metal roofing, interior				
	walls and/or ceilings.					

All necessary work to handle this material is the contractor's responsibility.

All materials requiring removal or special handling. **Asbestos Survey Report** 

KOUIE:	32
<b>MODOT JOB NO.:</b>	N/A
DISTRICT:	WS
COUNTY:	Polk
DATE OF TESTS:	tdate
PARCEL NO.:	E8-0699 (Halfway MT Lot)
SITE ADDRESS:	2074 Highway 32, Halfway 65663

TYPE(S) OF STRUCTURE(S): 7112010411MOIR11239, F.R. Frank Reicharland Diane Roegge

**CERTIFICATION #:** 

TESTED BY:

5-Bay Block Maintenance Shed on Concrete, Metal Spreader 7112010411MOIR7165, D.R.

Concrete Saddles, 3-Sided Wooden Trash Bin, Wooden Post/Sign Equipment Racks, Metal-Clad Wood-Frame Cold Storage Shed, Wooden Spreader/Tank Rack, Two (2) Metal Asphalt Tanks with

Bin, Small Metal-Clad Wooden Flammable Shed on Concrete, Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mix

Wooden Salt Shed, and Concrete Fuel Tank Basin (Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay

	202-40.46																	Bid Item No.
	11MD1R 684											,						Sample ID
	Caulking on Windows	Wooden Trash Bin			<b>Asphalt Tanks with Concrete Saddles</b>			Wooden Spreader/Tank Rack			Cold Storage Shed			Metal Spreader Equipment Racks			Maintenance Shed	Type of Material
None Located	7-Loose		None Located	None Located	te Saddles	None Located	None Located	ck	None Located	None Located		None Located	None Located	Racks	None Located	None Located		Location of Material
Ŧ	II NF		IINF	F		II NF	F		IINF	F		II NF	F		IINF	Ą		Friability Category
	168 Lin. Ft.																-	Field Measure
	Chrysotile			;														Asbestos Type
	1-3			Ī														Percent

#### Continued on next page

Asbestos Survey Report
All materials requiring removal or special handling.

ON #: Cation of Material		None Located II NF		
N/A   CERTIFICATION #:   SW   CERTIFICATION #:   TYPE(S) OF STRUCTURE(S):   E8-0699 (Halfway MT Lot)     2074 Highway 32, Halfway 65663     Wooden Post/Sign Rack   None Located     Wooden Post/Sign Rack   None Located     Metal Post/Sign Rack   None Located     Mone Located   None Located     None Located   None Located   None Located     None Located   None Located   None Located     None Located   None Located   None Located   None Located     None Located   None Located   None Located   None Located   None Located   None Located   None Located   None Located   None Located   None Located   None Located   None Located   None Located   None Located   None Loc	H	None Located		-
SW   CERTIFICATION #:   SW   TYPE(S) OF STRUCTURE(S):   E8-0699 (Halfway MT Lot)     2074 Highway 32, Halfway 65663     Wooden Post/Sign Rack   None Located     None Located   None Located			Brine Pump Shed	
N/A   CERTIFICATION #:   SW   TYPE(S) OF STRUCTURE(S):   Hold	II NF			
D.:   N/A   CERTIFICATION #:   CERTIFICATION #:   CERTIFICATION #:   CERTIFICATION #:   TYPE(S) OF STRUCTURE(S):     Highway 37, Halfway 65663     Highway 32, Halfway 65663     Highway 32, Halfway 65663     Wooden Post/Sign Rack   None Located   None Located	F	None Located		
32    N/A   CERTIFICATION #: CERTIFICATION #: TYPE(S) OF STRUCTURE(S):			(Brine) Concrete Pad	
D.:	IINF	None Located		
N/A   CERTIFICATION #:   CERTIFICATION #:   CERTIFICATION #:   CERTIFICATION #:   CERTIFICATION #:   TYPE(S) OF STRUCTURE(S):	Ŧ	None Located		
N/A   CERTIFICATION #:   SW			Flammable Shed	
N:	IINF	None Located		
N:   N/A   CERTIFIC ATION #:   CERTIFIC ATION #:   CERTIFIC ATION #:   TYPE(S) OF STRUCTURE(S):	Ħ	None Located		
Sample ID   Type of Material   Location of Material   Wooden Post/Sign Rack   None Located   N		fix Bin	Concrete Walled Asphalt M	
N:	IINF	None Located		
Sample ID   Type of Material   Wooden Post/Sign Rack   Metal Post/Sign Rack   Metal Post/Sign Rack   TESTED BY:    CERTIFICATION #: TYPE(S) OF STRUCTURE(S):   TYPE(S) OF STRUCTURE(S	Ħ	None Located		
N/A   CERTIFICATION #:   SW   CERTIFICATION #:   Polk   TYPE(S) OF STRUCTURE(S):   E8-0699 (Halfway MT Lot)   2074 Highway 32, Halfway 65663     Sample ID   Type of Material   Location of Material     Wooden Post/Sign Rack   None Located     None Located   None Located			Metal Post/Sign Rack	
SW   CERTIFICATION #:   SW   CERTIFICATION #:   Polk   TYPE(S) OF STRUCTURE(S):   E8-0699 (Halfway MT Lot)   2074 Highway 32, Halfway 65663     Sample ID   Type of Material   Location of Material     Wooden Post/Sign Rack   None Located	II NF	None Located		
Sample ID   Type of Material   N/A   CERTIFICATION #:   SW	F	None Located		
SW   CERTIFICATION #:   SW   CERTIFICATION #:   Polk   TYPE(S) OF STRUCTURE(S):   E8-0699 (Halfway MT Lot)   2074 Highway 32, Halfway 65663   Location of Material     Sample ID   Type of Material   Location of Material			Wooden Post/Sign Rack	
32  N/A  SW  Polk  tdate  E8-0699 (Halfway MT Lot)  2074 Highway 32, Halfway 65663  TESTED BY:  CERTIFICATION #:  TYPE(S) OF STRUCTURE(S):	Category	Location of Material		
32   TESTED BY:	Shed, and	Wooden Salt		F3G
32  N/A  SW  Polk  tdate  E8-0699 (Halfway MT Lot)  2074 Highway 32, Halfway 65663  TESTED BY:  CERTIFICATION #:  TYPE(S) OF STRUCTURE(S):	etal-Clad Vete Pad, S	Bin, Small M (Brine) Conce		
32       TESTED BY:         N/A       CERTIFICATION #:         SW       TYPE(S) OF STRUCTURE(S):         Polk       TYPE(S) OF STRUCTURE(S):         E8-0699 (Halfway MT Lot)	ost/Sign R	Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mix	2074 Highway 32, Halfway 65663	TE ADDRESS:
OB NO.:         N/A         TESTED BY:           :         SW         CERTIFICATION #:           :         Polk         TYPE(S) OF STRUCTURE(S):	eader/ i ank idles, 3-Sido	Concrete Sac	E8-0699 (Halfway MT Lot)	ARCEL NO.:
32       TESTED BY:         0B NO.:       N/A       CERTIFICATION #:         :       SW       TYPE(S) OF STRUCTURE(S):	acks, Meta	Equipment R	FOIR	ATH OF TESTS:
B NO.: 32 TESTED BY: CERTIFICATION #:	Maintenan		S.W	STRICT:
32 TESTED BY:	/IOIR1123		N/A	ODOT JOB NO.:
	and Diar		32	OUTE:

All materials requiring removal or special handling. **Asbestos Survey Report** 

								Bid Item No.	ROUTE: MODOT JOB NO.: DISTRICT: COUNTY: DATE OF TESTS: PARCEL NO.: SITE ADDRESS:
	\							Sample ID	<b>9</b>
:				<b>Concrete Fuel Tank Basin</b>			Salt Shed	Type of Material	32  N/A  SW  Polk  tdate  E8-0699 (Halfway MT Lot)  2074 Highway 32, Halfway 65663
		None Located	None Located		None Located	None Located		Location of Material	TESTED BY: CERTIFICATION #: TYPE(S) OF STRUCTURE(S):
		II NF	F		II NF	Ŧ	-	Friability Category	Frank Reicharf and Diane Roegge 7112010411MOIR11239, F.R. 7112010411MOIR11239, F.R. 7112010411MOIR7165, I 5-Bay Block Maintenance Shed on Concrete, Metal Spreader Equipment Racks, Metal-Clad Wood-Frame Cold Storage Shed, Wooden Spreader/Tank Rack, Two (2) Metal Asphalt Tanks with Concrete Saddles, 3-Sided Wooden Trash Bin, Wooden Post/Sign Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mix Bin, Small Metal-Clad Wooden Flammable Shed on Concrete, (Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay Wooden Salt Shed, and Concrete Fuel Tank Basin
		TF .			Ŧ			oility Field gory Measure	
						·		Asbestos Type	7112010411MOIR7165, D.R. crete, Metal Spreader rame Cold Storage Shed, Metal Asphalt Tanks with sh Bin, Wooden Post/Sign lersey Walled Asphalt Mix able Shed on Concrete, d Brine Pump Shed, 2-Bay ank Basin
								Percent	Y165, D.R. Her Shed, ks with st/Sign alt Mix rete, [, 2-Bay]

siding, metal roofing, interior walls and/or ceilings.

Additional suspect material may be present hidden underneath vinyl/metal NOTE: Non-destructive means were used to survey and sample this property.

Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE: MODOT JOB NO.:		TESTED BY: DATE OF TESTS:	Frank Reichart September 1, 2011
DISTRICT:	SW	YPE(S) OF STRUCTURE(S):	TYPE(S) OF STRUCTURE(S): 5-Bay Block Maintenance Shed on Concrete. Meta
COUNTY:	Polk	```	Equipment Racks, Metal-Clad Wood-Frame Cold S
SURVEYED BY:	Frank Reichart		Wooden Spreader/Tank Rack, Two (2) Metal Asph
DATE OF SURVEY:	September 1, 2011		Concrete Saddles, 3-Sided Wooden Trash Bin. Wo
PARCEL NO.:	E8-0699 (Halfway MT Lot)		Rack, Metal Post/Sign Rack, Concrete Jersey Wall
SITE ADDRESS:	2074 Highway 32, Halfway 65663		Bin. Small Metal-Clad Wooden Flammable Shed of

2074 Highway 32, Halfway 65663 (Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay Wooden Salt Shed, and Concrete Fuel Tank Basin Bin, Small Metal-Clad Wooden Flammable Shed on Concrete, Storage Shed,

bhalt Tanks with

ooden Post/Sign

lled Asphalt Mix l Spreader

						11MD1R 693				11MD1R 692	11MD1R 691	11MD1R 690	11MD1R 689	11MD1R 688		Sample ID	<del>Obbitantalia</del>	·	
No samples taken. No painted surfaces located.	Wooden Trash Bin	No samples taken. No painted surfaces located.	<b>Asphalt Tanks with Concrete Saddles</b>	No samples taken. No painted surfaces located.	Wooden Spreader/Tank Rack	Light Green/Exterior Foundation Walls/Block	Cold Storage Shed	No samples taken. No painted surfaces located.	Metal Spreader Equipment Racks	Cream/Interior Walls/Block	White/Interior Walls/Concrete	White/Interior Walls/Block	Light Gray/Exterior Walls/Concrete	Light Gray/Exterior Walls/Block	Maintenance Shed	Color/Location of Material/Substrate			
						114				680	<29	<127	<11	<12		As			
						873				<242	<296	<345	<212	<234		C <sub>r</sub>			
						2,170				4,658	278	5,652	21	<11		Pb			
						<45				<53	<55	<64	<45	<52		Cd		Id)	Metals
						6				<11	\$>	<11	4	4		Se		(ppm)	tals
						<1,408				1,849	<2,290	<2,729	<1,491	<1,614		Ва			
						<24				<45	<b>\}</b>	<48	<14	<16		Hg			
						\$				4	<42	<b>&gt;50</b>	<b>∆</b> 5	4		Ag			

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050 b = USEPA SW-846 Method 7471

Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

			SITE ADDRESS:	PARCEL NO.:	DATE OF SURVEY:	SURVEYED BY:	COUNTY:	COTTOTAL.	MODOL JOB NO.:	ROUTE:	
			2074 Highway 32, Halfway 65663	E8-0699 (Halfway MT Lot)	September 1, 2011	Frank Reichart	POIK	O.W.	N/A	32	
			i	ľ		•	ı	_ TYPE(S) OF STRUCTURE(S)	DATE OF TESTS:	TESTED BY:	
7	Wooden Salt Shed, and Concrete Fire! Tank Basin	(Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay	Bin, Small Metal-Clad Wooden Flammable Shed on Concrete,	Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mix	Concrete Saddles, 3-Sided Wooden Trash Bin, Wooden Post/Sign	Wooden Spreader/Tank Rack, Two (2) Metal Asphalt Tanks with	Equipment Racks, Metal-Clad Wood-Frame Cold Storage Shed	TYPE(S) OF STRUCTURE(S): 5-Bay Block Maintenance Shed on Concrete, Metal Spreader	September 1, 2011	Frank Reichart VIV	

														Sample ID		
No samples taken. No painted surfaces located.	Salt Shed	No samples taken. No painted surfaces located.	Brine Pump Shed	No samples taken. No painted surfaces located.	(Brine) Concrete Pad	No samples taken. No painted surfaces located.	Flammable Shed	No samples taken. No painted surfaces located.	Concrete Walled Asphalt Mix Bin	No samples taken. No painted surfaces located.	Metal Post/Sign Rack	No samples taken. No painted surfaces located.	Wooden Post/Sign Rack	Color/Location of Material/Substrate		
														As		
														Cr		
														Pb		
														Cd		Metals (ppm)
														Se		Metals (ppm)
														Ва		
														Hg		
	:													Ag		

Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

vinyl/metal side and/or ceilings	and sample surfaces m	NOTE: No					No sample	Concrete	Sample ID Co		ROUTE:       32         MODOT JOB NO.:       N/A         DISTRICT:       SW         COUNTY:       Polk         SURVEYED BY:       Frank         DATE OF SURVEY:       September 10         PARCEL NO.:       E8-0         SITE ADDRESS:       2074
vinyl/metal siding, metal roofing, interior walls and/or ceilings	and sample this property. Additional painted surfaces may be present hidden underneath	NOTE: Non-destructive means were used to survey					No samples taken. No painted surfaces located.	Concrete Fuel Tank Basin	Color/Location of Material/Substrate		32  N/A  SW  Polk  Frank Reichart  September 1, 2011  E8-0699 (Halfway MT Lot)  2074 Highway 32, Halfway 65663
									As		TESTED BY: DATE OF TESTS: TYPE(S) OF STRI
									Ç		ESTS: STRUCTU
									Pb		RE(S): SEE
									Cd	Metals (ppm)	TESTED BY:  September 1, 2011  TYPE(S) OF STRUCTURE(S):  5-Bay Block Maintenance Shed on Concrete, Metal Spreader  Equipment Racks, Metal-Clad Wood-Frame Cold Storage Shed, Wooden Spreader/Tank Rack, Two (2) Metal Asphalt Tanks with  Concrete Saddles, 3-Sided Wooden Trash Bin, Wooden Post/Sign Rack, Metal Post/Sign Rack, Concrete Jersey Walled Asphalt Mix  Bin, Small Metal-Clad Wooden Flammable Shed on Concrete,  (Brine) Concrete Pad, Small Metal-Clad Brine Pump Shed, 2-Bay  Wooden Salt Shed, and Concrete Fuel Tank Basin
									Θ	als m)	intenance S aintenance S ks, Metal-Cla er/Tank Rac ss, 3-Sided V st/Sign Rack ul-Clad Woo e Pad, Smal
									Ва		hed on Conc ad Wood-Fra k, Two (2) N Vooden Trash Concrete Je den Flammah I Metal-Clad Crete Fuel Ta
								į.	Hie		rete, Metal Sume Cold Sto Metal Asphall Metal Asphall Metal Asphall Metal Asphall Metal Asphall Metal
								C	Ag		preader prage Shed, t Tanks with en Post/Sign Asphalt Mix Concrete, Shed, 2-Bay